

22. An isolated and purified polypeptide comprising a DNA binding domain of an Ah receptor protein wherein said DNA binding domain comprises the amino acid sequence:

RKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLSDKLSVLRLSVTYLRAKSFFD and alterations, substitutions, additions and deletions thereof.

23. A chimeric Ah receptor protein wherein the native DNA binding domain of said chimeric protein has been replaced with a non-native DNA binding domain, wherein said DNA binding domain is a fusion protein capable of binding a DNA sequence.

24. The chimeric Ah receptor protein of claim 23 wherein the non-native binding domain is replaced with a DNA binding domain from a LexA protein.

25. The chimeric Ah receptor protein of claim 23 wherein the non-native DNA binding domain is replaced with a DNA binding domain from a Gal4 protein.

26. An isolated and purified polypeptide comprising a ligand binding domain of an Ah receptor protein, wherein said ligand binding domain comprises the amino acid sequence: EFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNPDQIPPENSPLMERCFCRLRCLLDNSSGFLAMNFQGKLYLHGQKKKGKDGSLPPQLALFAIATPLQPSSILEIRTKNFIFRTKHKLDFTPIGCDAGKGRIVLGYTEAELCTRGSGYOFIHAADMLYCAESHIRMIKTGESGMIVFRLLTKNRWTWVQSNARLLYKNGRP and alterations, substitutions, additions and deletions thereof.

27. An isolated and purified polypeptide comprising a ligand binding domain of an Ah receptor protein, wherein said ligand binding domain comprises the amino acid sequence:

FMERCFCRLRCLLDNSSGFLAMNFQGRKLYLHGQNKKGKDGALLPPQLALFAIATPLQPPSSILEIRTKNFIFRTKHKLDFTPIGCDAGQLILGYTEVELCTRGSGYOFIHAADILHCAESHIRMIKTGESGMTVFRLLAKHSRWRWVQSNARLIYRNGRP and alterations,